

weber.cal 174

Lime-based render

Natural mineral lime render based on air lime and hydraulic binder for interior use



Product profile

- for mechanical and manual application
- For all mineral substrates
- For indoor use

Product advantages

- Room humidity regulating
- Low voltage
- Mould-inhibiting

Product description

weber.cal 174 is a factory-produced, mineral dry mortar according to DIN EN 998-1 and DIN 18550.

Fields of application

weber.cal 174 is a mineral lime render for interior use. All mineral final coats from Weber and all solvent-free paints can be applied to **weber.cal 174**. The physical building properties such as good room humidity regulation and vapour diffusion permeability provide a healthy and comfortable living environment.

Product features

- can be applied by machine and by hand
- is highly permeable to water vapour
- is mould-inhibiting
- is moisture-regulating

Consumption / yield

at 15 mm thickness	approx. 19.0 kg/m ²	approx. 1.6 m ² /30 kg
Fresh mortar output	approx. 800 l/tonne	

Technical values

Grain sizes	approx. 1 mm
Layer thickness	10 - 20 mm
Water demand	approx. 8 l/30 kg
Solid mortar density	1,400 kg/m ³
Water vapour diffusion resistance [μ]	≤ 25
Dynamic modulus of elasticity	< 3,000 N/mm ²
Class of capillary water absorption	W0
Reaction to fire[nach EN13501-1]	A1
Strength class	CS I
Mortar Group (DIN 18550)	PI
Base color	Natural white
Application tool	render machine, smoothing trowel, notched trowel, broom, Rabbospeed, sponge float
Composition	white hydrated lime, cement, classified mineral aggregates, air-entraining agent, cellulose

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Storage

Shelf life	min. 12 months
Storage conditions	In the original unopened packaging, dry and protected from moisture

Application

Surface preparation

- The surface must be load-bearing, dry and free from dust and adhesion-reducing substances.
- Dry or highly absorbent surfaces must be pre-wetted if necessary.
- Dense surfaces (e.g. concrete or old bricks) require pre-treatment with the mineral bonding mortar **weber.dur 101** as a grooved levelling compound or the normal-setting stipple coat **weber.san 160 WTA**.
- Observe the service life after plaster base pre-treatment.
- In the case of unsuitable render bases (e.g. deviations from DIN 1053 "Masonries" and DIN 18202 "Tolerances in building construction"), concerns must be raised and remedial action taken.

Application

Mechanical application: The mortar can be applied with all standard plastering machines (see equipment planner).

Manual application: Mix the contents of a bag thoroughly with the specified amount of water to achieve a consistency suitable for application.

- Apply the mortar to the specified thickness (approx. 10-20 mm).
- Remove the freshly applied plaster mortar in a lath-straight and nest-free manner.
- In the case of highly absorbent and/or differently absorbent surfaces, two coats must be applied wet-on-wet. The application thickness of the first coat should be 2/3 of the total plaster thickness.
- Roughen the surface of the base coat to match the intended final coat. For fine scratch render, for example, use a road broom or serrated decorative trowel after the first coat has been applied.
- To achieve a smooth (stuccoed) surface indoors, we recommend the lime smooth plaster **weber.cal 178**.
- As an inlay plaster: Apply 3-4 mm the next day and rub or felt the surface after setting.

General notes

Health and environmental protection is always our top priority. Therefore, please observe the following instructions: Avoid eye and skin contact by wearing suitable protective clothing (safety goggles and gloves). Wear long trousers. If contact with eyes or skin nevertheless occurs, rinse thoroughly with water immediately and consult an (eye) doctor if necessary. The longer fresh render remains on your skin, the greater the danger of serious skin damage. Ensure thorough ventilation during and after application and drying. Avoid eating, drinking and smoking while you are applying the product. Keep out of reach of children and keep children away from fresh render. Use combination filter A2/P2 for spray mist.

Do not pour the product or its residues into bodies of water, drains or onto the ground. Only dispose of completely empty containers for recycling. Clean tools immediately after use with soap and water. Material residues can be mixed with water and disposed of as construction site waste after hardening.

Always follow the manufacturer's health and safety instructions during the application phase.

Do not mix with other substances during mixing and application.

The air temperature, the used materials and the surface must not fall below +5 °C during application and drying.

Freshly rendered surfaces must be protected from direct sunlight, strong winds and moisture.

Application and execution in accordance with DIN 18 350 VOB/C and DIN 18 550.

Consumption figures refer to the minimum layer thickness and may vary depending on the surface and application. Exact consumption values must be determined by testing areas on the object.

Adjacent components must be separated from the plaster system.

weber.cal 174 is subject to continuous quality control through self-monitoring in accordance with DIN EN 998-1 and DIN 18550.

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Packaging units

Type	Unit	PU
sack	30 kilogram	42 sacks / palett
silo		

The information in this technical information is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.

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